

Title (en)

METHOD AND DEVICE FOR DETERMINING A WHEEL LOAD ACTING ON A WHEEL OF A VEHICLE, AND METHOD AND DEVICE FOR DETERMINING A WEIGHT OF A VEHICLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BESTIMMEN EINER AUF EIN RAD EINES FAHRZEUGS WIRKENDEN RADLAST SOWIE VERFAHREN UND VORRICHTUNG ZUM BESTIMMEN EINES GEWICHTS EINES FAHRZEUGS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION D'UNE CHARGE DE ROUE AGISSANT SUR UNE ROUE D'UN VÉHICULE, AINSI QUE PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DU POIDS D'UN VÉHICULE

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Application

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Abstract (en)

[origin: WO2018050813A1] The invention relates to a method for determining a wheel load (WL) acting on a wheel (W) of a vehicle (1), wherein the wheel (W) comprises a rim and a tire mounted onto the rim, and a sensor unit (12) mounted at the wheel (W), wherein the method comprises: (a) determining a tire pressure (p) of the tire by means of the sensor unit (12), (b) determining a tire footprint of the tire by means of the sensor unit (12), when the vehicle (1) is driving, (c) determining the wheel load (WL) based on a predetermined relationship between the wheel load (WL), the tire pressure (p) and the tire footprint, (d) analysing temporal variations of the tire pressure (p) during a standstill period of the vehicle (1) for determining one or more parameters indicating the temporal variations of the tire pressure (p), and (e) estimating a change (dWL) of the wheel load (WL) during the standstill period based on the one or more determined parameters. The invention further relates to a device for determining a wheel load (WL), and a method and a device for determining a weight of a vehicle (1).

IPC 8 full level

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